## Stealth. 5300 series

531x - VHF 534x - UHF 538x - 800 MHz

DIGITAL MOBILE RADIO



The Stealth™ Mobile Digital Radio provides an APCO 25 compatible interface to meet the needs of federal, state, and local government users. With backwards compatibility, the Stealth mobile offers the capacity to communicate in both narrow and wide channels and operate in either digital or analog mode. This allows the Stealth mobile to effectively switch from communication between APCO 25 approved equipment to conventional FM equipment with one simple turn of the channel knob.

**Complete APCO 25 Common Air Interface** offers the capacity to operate with other APCO 25 compatible equipment.

**Backwards Compatibility** provides the flexibility to communicate in both narrow and wide bandwidth analog channels, in addition to narrowband digital.

Multiple Protocol Compatibility
allows the Stealth mobile to be
customized to operate with a variety
of radio protocols, including APCO 25,
SmartZone™, SmartNet™, and
Multi-Net® II.

**Field Programmable** furnishes an authorized user the ability to reprogram frequencies, CTCSS, DCS, and talkgroups into the radio's memory.

**Alphanumeric Display** provides a backlit visual display of the radio's channel or talkgroup on the front of the radio.

**DTMF Compatibility** allows the user to operate remote control devices or access telephone interconnect systems.

**Rotary Knobs** mounted on the front of the Stealth mobile provide easy channel and volume adjustment.

*Multi-System Select* allows the radio to be programmed for access into both digital and analog radio systems. In addition, the Stealth mobile can be configured to support conventional, analog, digital narrow and wideband trunked systems.

**Analog Voice Privacy** secures communication while operating in the analog mode.

**Motorola® DES and DES-XI**<sup>™</sup> **Option** allows compatibility with high-tier Motorola encrypted radio systems.

High Performance Receiver and Transmitter Specifications









## STEALTH<sup>™</sup> 5300 SERIES

## DIGITAL MOBILE RADIO

All Specifications are typical and subject to normal manufacturing tolerances.

MODEL NUMBER	531X	534X	538X
GENERAL	VHF	UHF	800 MHz
Frequency Range Range 1 Range 2	136–174 MHz —	403–470 MHz 450–512 MHz	806–870 MHz —
Zones/Channels	16/16		
Mounting	Dash-mount (remote mount optional)		
Input Voltage	13.6 VDC (negative ground)		d)
Dimensions (HxWxD)	2.1" x 7.15" x 8.3" (5.3 cm x 18.2 cm x 21.1 cm)		cm x 21.1 cm)
Weight	5 lbs. 4 oz. (2.38 kg)		
Case		Metal-black	
Temperature Range		−30°C to +60°C	
Current Drain @ 13.8V: Standby		0.6 A	
Received @ Rated Audio	2.7 A		
Transmit @ Rated Power	13.2 A		
Channel Spacing	12.5, 15, 25, 30 kHz	12.5, 25 kHz	12.5, 25 kHz
Voice Digital Mode: Voice Coding		IMBE™ 4.4 kbps	
Frame Re-sync Interval		180 msec	
Error Correction Method		RS, Golay, Hamming	
FCC Type Acceptance Number	Pending	Pending	Pending
Canada	Pending	Pending	Pending
RECEIVER (Measurements per TIA/EIA 603 Standards)			
Sensitivity: Digital Mode: 5% BER	0.35 μV		
Analog Mode: 12 dB SINAD			
Selectivity	−75 dB		
Spurious & Image Rejection	−75 dB		
Intermodulation	−75 dB −73 dB −73 dB		−73 dB
Audio Output Power	5W		
Audio Distortion (at 1000 Hz)	<3%		
Frequency Stability (-30°C to +60°C)	±2.5 ppm	±2.5 ppm	±1.5 ppm
Maximum Frequency Separation	Full bandsplit		
TRANSMITTER (Measurements per TIA/EIA 603 Standards)			
RF Power Output	25W-50W variable	10W-40W variable	10W-35W variable
Spurious & Harmonic Emissions	<del>-7</del> 0	<del>-7</del> 0	-60
FM Hum & Noise (Wideband)			
Emission Designators	16K0F3E, 11K0F3E, 8K10F1E, 20K0F1E		
Audio Distortion (at 1000 Hz)	<3%		
Audio Response (1000 Hz ref.)	300–3000 Hz		
Frequency Stability (-30°C to +60°C)	±2.5 ppm		
Modulation Limiting: Wideband Analog	5 kHz	5 kHz	5 kHz
Narrowband Analog	2.5 kHz	2.5 kHz	2.5 kHz
Digital	2.5 kHz	2.5 kHz	_
Maximum Frequency Separation	Full bandsplit		

Environment	Mil Spec 810C		Mil Spec 810D		Mil Spec 810E	
	Method	Procedure	Method	Procedure	Method	Procedure
Low Pressure	500.1	- 1	500.2	1	500.3	II
High Temp.	501.1	I, II	501.2	I, II	501.3	I, II
Low Temp.	502.1	- 1	502.2	1	502.3	- 1
Temp. Shock	503.1		503.2	- 1	503.3	- 1
Solar Radiation	505.1	- 1	505.2	1	505.3	- 1
Rain/BlowRain	506.1	1, 11	506.2	I, II	506.3	I, II
Humidity	507.1	II	507.2	II(5)	507.3	II(5)
Salt Fog	509.1		509.2	l'	509.3	ì
Dust and Sand	510.1		510.2	1	510.3	I, II
Vibration	514.2	VIII(W)	514.3	I(10)	514.4	I(10)
Shock	516.2	I, IÌ, V	516.3	I, ÌV, VI	516.4	I, ÌV, ÝI

## **ACCESSORIES**

- · 12-Watt External Speaker
- · DTMF Microphone
- Remote-Mount Conversion Kit
  - · Lockable Mounting Tray
- · Spare Control Head Kit

Encryption Algorithm Capacity	1
Encryption Keys/Radio	16
Encryption Frame Re-sync Interval	180 msec 180 msec
Code Key Generator	External Keyloader
Encryption Key Tag Capacity Per System	65,000
Encryption Type	APCO 25 DES
Code Key Initialization	Internal pseudorandom generator

Secure <b>N</b> et™	<b>ENCRYPTION</b>	<b>OPTIONS</b>
---------------------	-------------------	----------------

Encryption Algorithm Capacity	2
Encryption Keys/Radio	16
Code Key Generator	External Keyloader
Encryption Key Tag Capacity Per System	65,000
Encryption Type	DVP™, DVP-XL™, DES, DES-XL™
Code Key Initialization	Internal pseudorandom generator

<b>SCRAMBLING</b>	
(Embadded CVD®	Toobnal

(Littibedued CVF Technology)		
Scrambling Keys/Radio	16	
Scrambling Keying	External computer	
Compatibility	SC20-460 analog scrambler	
OTAR	FlashCall™	
*Pending SC20-DES FIPS 140-1		

<sup>\*</sup> Call for availability

This device has not been authorized as required by the rules of the Federal Communications Commission. This device may not be delivered until authorization is obtained.

